

**AMENDMENTS TO THE CLAIMS**

Claims 1-20 (Canceled)

21. (Previously Added) A transgenic mouse comprising a disruption in an endogenous DEZ receptor gene, wherein where the disruption is homozygous, the transgenic mouse lacks production of functional DEZ receptor protein and exhibits decreased agility or coordination, relative to a wild-type mouse.

22. (Previously Added) The transgenic mouse of claim 21, wherein the decreased agility or coordination is characterized by decreased performance on an accelerating rotarod.

23. (Currently Amended) A cell ~~or tissue~~ isolated from the transgenic mouse of claim 21, wherein the disruption in the endogenous DEZ receptor gene is homozygous.

24. (Previously Added) A method of producing a transgenic mouse comprising a disruption in an endogenous DEZ receptor gene, the method comprising:

- (a) introducing a DEZ receptor gene targeting construct into a murine embryonic stem cell;
- (b) introducing the murine embryonic stem cell into a blastocyst;
- (c) implanting the resulting blastocyst into a pseudopregnant mouse, wherein the pseudopregnant mouse gives birth to a chimeric mouse; and
- (d) breeding the chimeric mouse to produce the transgenic mouse,  
wherein where the disruption is homozygous, the transgenic mouse lacks production of functional DEZ receptor protein and exhibits decreased agility or coordination, relative to a wild-type mouse.

25. (Previously Added) The transgenic mouse produced by the method of claim 24.

Claims 26-27 (Canceled)